

### IX.3.3B-SYSTEM-FBLEND SUBROUTINE FBLEND

#### Description

Subroutine FBLEND adjusts simulated discharges for the difference between observed and simulated discharge which exists at the time of the last observed ordinate by blending the difference in specified number of ordinates.

#### Calling Sequence

CALL FBLEND (Q,DQ,NBLND,NSTEPS,IB,IE)

#### Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
Q	Both	R*4	*	Array containing simulated discharges
DQ	Input	R*4	1	Difference between observed and simulated discharge at last observed ordinate
NBLND	Both	I*4	1	Number of ordinates completed in the blend
NSTEPS	Input	I*4	1	Total number of ordinates to blend
IB	Input	I*4	1	First ordinate in simulated array to blend
IE	Input	I*4	1	Last computed ordinate in simulated discharge array

#### Method

The blend is done by linearly prorating the difference (DQ) between the observed and simulated discharge at the last observed ordinate (LASTOB) and adding the prorated differences to the NSTEPS simulated discharges following LASTOB:

$$Q_{\_lastobs+i} = Q_{\_lastobs+i} + ((NSTEPS-i)/NSTEPS) * DQ$$

where i is 1 to NSTEPS

The blended discharges become equal to the simulated discharges after NSTEPS ordinates. If the number of simulated ordinates between LASTOB and the end of the run is less than NSTEPS then the blend can be

completed at the beginning of the next run by saving NBLND (the number of ordinates completed in the current blend) and DQ as carryover.